

SUSTAINABILITY GOAL #7

All applicable facilities at Fort Carson will be high performance buildings that meet or surpass the Platinum Standard of Sustainable Project Rating Tool (SPiRiT) or Leadership in Energy and Environmental Design (LEED) rating.

SUSTAINABLE DESIGN



FORT CARSON, COLORADO

For more information log on to
<http://sems.carson.army.mil>

Newly constructed 4th Infantry Division Headquarters.



Where the goal fits in the Fort Carson Strategic Action Plan

- Goal #1 Promote mutual respect, professional development, personal growth and teamwork, while celebrating success.
- Goal #2 Provide the services and support that contribute to mission readiness.
- Goal #3 Positively contribute to the spiritual, physical, psychological, and emotional well-being of the Mountain Post Community and create opportunities to enhance understanding of Fort Carson for our local neighbors.
- Goal #4 Provide vibrant, healthy, safe and environmentally-friendly places and spaces and Hometown services for the Mountain Post.
- Goal #5 Transform Fort Carson people, processes, products, places and profits – to show by our actions what sustainability and environmental management is, and its critical role in meeting the mission in all its dimensions by 2027.

All new Military Construction projects on Fort Carson are now designed to U.S. Green Building Council (USGBC) Leadership in Energy and Environmental Design (LEED) Silver rating standard. Renovation projects are also being targeted for LEED Silver standard. Two large-scale facilities completed this year incorporate an array of emerging sustainable features:

1st BCT Consolidated Brigade and Battalion Headquarters

The new 1st BCT Consolidated Brigade and Battalion Headquarters building was originally scoped to be LEED Silver certified. Through the design-build process, additional LEED points were incorporated and the building has been submitted for LEED Gold certification. The new facility is sited to make maximum use of interior daylighting and solar efficiency.

4th Infantry Division Headquarters

The 4th Infantry Division Headquarters building was designed as LEED Silver certifiable. The project is using practical design elements and efficient building materials that will require the use of less water and energy consumption over the life of the building.

Fort Carson Family Housing

Fort Carson is increasing its on-Post housing inventory to accommodate additional demands resulting from Base Realignment and Closure and the proposed Grow the Army unit stationing Initiatives. Balfour Beatty Communities, formerly GMH, constructs and manages Fort Carson Family Housing, and is doing so using ever-more efficient construction materials and design. Its nearly complete Iroquois Village has 408 homes built to the Army's former Sustainable Project Rating Tool (SPiRiT) Gold, which is a close approximation to LEED Silver criteria, with movement to LEED-Home ratings in future construction.



Balfour Beatty Communities housing construction image: New Fort Carson Family Housing is being constructed to include sustainable features.



1st BCT Consolidated Brigade and Battalion Headquarters

FUTURE GOAL 7 INITIATIVES:

- Certify three engineering department staff as LEED building professionals.
- Complete a major renovation of a building on Fort Carson to a LEED-Existing Building standard, as a model building. The project will incorporate state-of-the-art technologies and techniques to provide a space that demonstrates cost savings and improved quality of life through sustainable construction.
- Evaluate energy-saving proposals for new buildings and renovations. Pursue monitoring of power use in order to compare before and after performance of buildings and facilities.

OPPORTUNITIES:

- Ensuring contractors understand and practice sustainability in accordance with contracts and intent of the designs.
- Coordinating construction/renovation efforts among the many on-Post agencies with unique goals and requirements to obtain sustainable facilities.